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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 6275 (1971): Lower Extremity Full Length Brace with Joints with Locks [MHD 10: Medical Laboratory Instruments]

“ज्ञान से एक नये भारत का निर्माण”

Satyanaaranay Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartṛhari—Nītiśatakam

“Knowledge is such a treasure which cannot be stolen”



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Indian Standard

SPECIFICATION FOR LOWER EXTREMITY FULL LENGTH BRACE WITH JOINTS WITH LOCKS

1. Scope — Requirements of lower extremity full length brace with joints with locks.

2. Material

2.1 Ankle Joint — Conforming to IS : 5809-1970 ' Specification for ankle joint with lock for steel orthopaedic braces '.

2.2 Knee Joint — Conforming to IS : 5810-1970 ' Specification for knee joint with lock for steel orthopaedic calipers and braces '.

2.3 Hip Joint — Conforming to IS : 5811-1970 ' Specification for hip joint with lock for steel orthopaedic calipers and braces '.

2.4 Supporting Bands — Conforming to: (a) ' Indian Standard specification for pelvic band ', (b) ' Indian Standard specification for calf band ', (c) ' Indian Standard specification for thigh band ', and (d) ' Indian Standard specification for tuber band '.

2.5 Covering for Bands — Thin felt, suede leather and a suitable quality of orthopaedic lining leather conforming to IS : 3982-1966 ' Specification for sheepskin leather for orthopaedic linings '.

2.6 Rivets and Screws — Mild steel.

2.7 Loops — Mild steel.

3. Shape and Dimensions — As shown in Fig. 1.

4. Manufacture, Workmanship and Finish — The two ankle joints and the outer knee joint of the brace shall have a loop welded securely to their upper ends. The welding shall be sound and it shall be finished smooth by filing to give a neat appearance. The joining of the knee joints to the ankle joints at the lower ends shall be by means of two screws each. Similarly the outer knee joint shall also be joined with the hip joint by means of two screws. The bands shall be secured by means of rivets after they are properly bent to shape. The screws shall have a round head and the rivets shall be neatly fixed so as to leave no sharp projections to avoid damage to the clothes of the wearer. The joint components shall be bent to proper shapes to suit the contours of the wearer's leg. The ankle, knee and hip joints shall be precisely aligned so that their axes coincide exactly with the anatomical axes of the wearer. The adjustments for alignment shall be made after assembling the brace temporarily. After adjustments, the brace shall be disassembled and the components shall be plated chromium over nickel. The plating shall conform to Service Grade No. 3 of IS : 1060-1968 ' Specification for electroplated coatings of nickel and chromium on iron and steel (first revision) ': The brace shall then be assembled again and the fittings shall be made permanent. The bands shall then be uniformly wrapped with thin felt and covered with suede leather internally then securely covered with externally the orthopaedic lining leather. The covered band shall have a neat appearance. The finished brace shall be rigid and well fitting to infuse complete confidence in the wearer. Provision shall be made for readjustments or extensions later to accommodate the growth of the wearer's limbs.

5. Marking — Each brace shall be marked with the following:

- a) Manufacturer's name, initials or recognized trade-mark; and
- b) The words ' left leg ' or ' right leg ' depending upon the leg for which the brace has been made.

5.1 ISI Certification Marking — Details available from the Indian Standards Institution

6. Packing — The brace shall be packed as agreed to between the purchaser and the supplier. However, while packing, care shall be taken to suitably protect the brace against getting malaligned in transit.

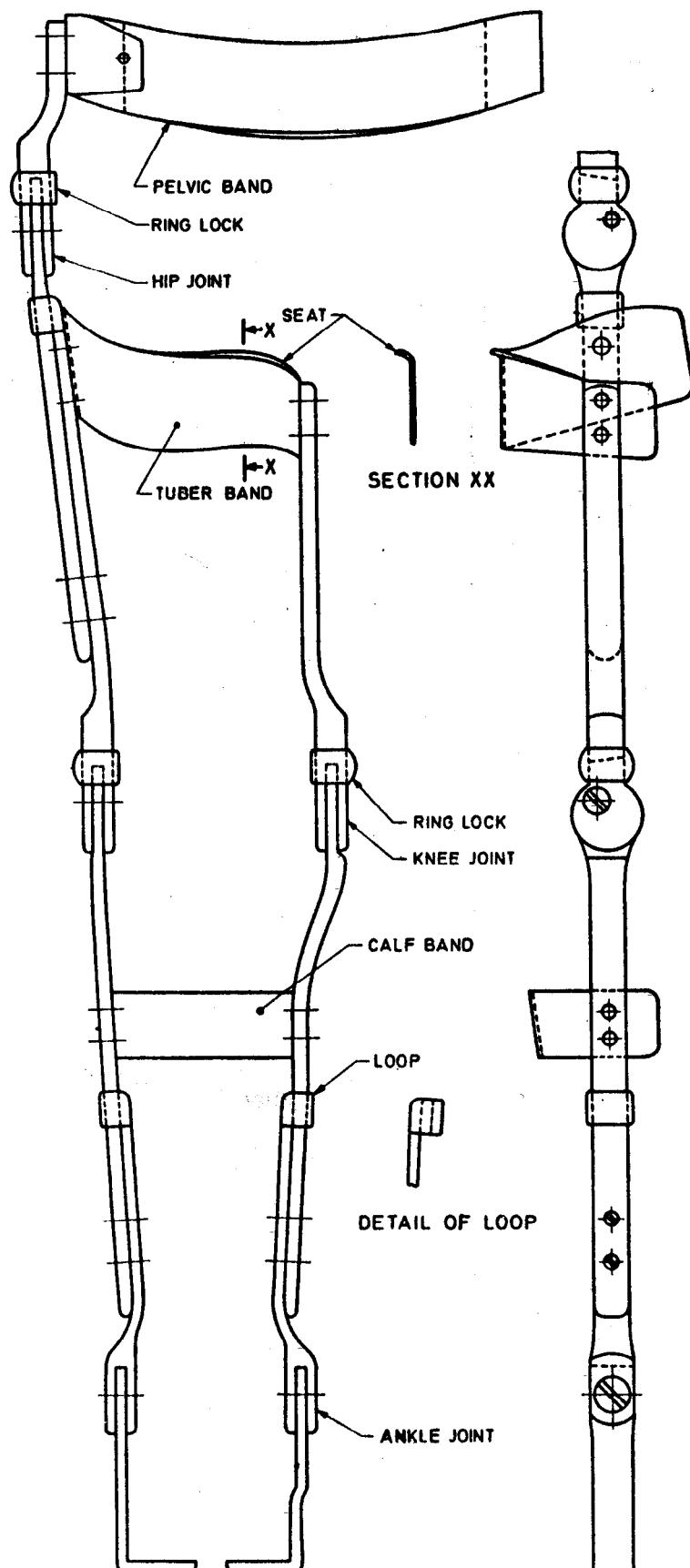


FIG. 1 POSTERIOR VIEW OF FULL LENGTH LEFT LEG BRACE